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PATENT & TRADEMARK OFFICE

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 980034.417C5	APPLICATION NO. 10/762,210
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	APPLICANTS Ronald J. Berenson et al.	
	FILING DATE January 20, 2004	GROUP ART UNIT 1651

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO
	AK					
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	AM					
	AN					
	AO					

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AP	Brodie et al., "In *vivo* migration and function of transferred HIV-1-specific cytotoxic T cells," *Nature Medicine* 5(1):34-41, January 1999.
	AQ	Cohen et al., "Propagation of mouse and human T cells with defined antigen specificity and function," *CIBA Foundation Symposium, 187*:179-197, 1994.
	AR	Curtsinger et al., "CD8$^+$ Memory T Cells (CD44^{high}, Ly-6C$^+$) Are More Sensitive than Naïve Cells (CD44^{low}, Ly-6C$^-$) to TCR/CD8 Signaling in Response to Antigen," *J. Immunol., 160*:3236-3243, 1998.

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	AA	Dahl et al., "Expression of Bcl-X_L Restores Cell Survival, but Not Proliferation and Effector Differentiation, in CD28-deficient T Lymphocytes," *J. Exp. Med., 191*(12):2031-2037, June 19, 2000.
	AB	DeBenedette et al., "Costimulation of $CD28^-$ T Lymphocytes by 4-1BB Ligand," *J. Immunol., 158*(2):551-559, January 15, 1997.
	AC	Deeths et al., "B7-1-dependent co-stimulation results in qualitatively and quantitatively different responses by $CD4^+$ and $CD8^+$ T cells," *Eur. J. Immunol., 27*(1):598-608, January 1997.
	AD	Deeths et al., "$CD8^+$ T Cells Become Nonresponsive (Anergic) Following Activation in the Presence of Costimulation," *J. Immunol., 163*:102-110, 1999.
	AE	Dong et al., "B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion," *Nature Medicine 5*(12):1365-1369, December 1999.
	AF	Dunbar et al., "Direct isolation, phenotyping and cloning of low-frequency antigen-specific cytotoxic T lymphocytes from peripheral blood," *Current Biology, 8*(7):413-416, March 26, 1998.
	AG	Fanger et al., "Type I (CD64) and Type II (CD32) Fcγ Receptor-Mediated Phagocytosis by Human Blood Dendritic Cells," *J. Immunol., 157*(2):541-548, July 15,1996.
	AH	Fowler et al., "Donor CD4-Enriched Cells of Th2 Cytokine Phenotype Regulate Graft-Versus-Host Disease Without Impairing Allogeneic Engraftment in Sublethally Irradiated Mice," *Blood, 84*(10):3540-3549, November 15, 1994.
	AI	Fraser et al., "Regulation of Interleukin-2 Gene Enhancer Activity by the T Cell Accessory Molecule CD28," *Science, 251*:313-316, January 18, 1991.
	AJ	Freeman et al., "Engagement of the PD-1 Immunoinhibitory Receptor by a Novel B7 Family Member Leads to Negative Regulation of Lymphocyte Activation," *J. Exp. Med., 192*(7):1027-1034, October 2, 2000.
	AK	Gett et al., "Cell division regulates the T cell cytokine repertoire, revealing a mechanism underlying immune class regulation," *Proc. Natl. Acad. Sci. USA, 95*:9488-9493, August 1998.
	AL	Gett et al., "A cellular calculus for signal integration by T cells," *Nature Immunology, 1*(3):239-244, September 2000.
	AM	Gillis et al., "Long term culture of tumour-specific cytoxic T cells," *Nature, 268*(14):154-156, July 14, 1977.
	AN	Gimmi et al., "B-cell surface antigen B7 provides a costimulatory signal that induces T cells to proliferate and secrete interleukin 2," *Proc. Natl. Acad. Sci. USA, 88*:6575-6579, August 1991.

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	AA	Goodwin et al., "Molecular cloning of a ligand for the inducible T cell gene 4-1BB: a member of an emerging family of cytokines with homology to tumor necrosis factor," *Eur. J. Immunol., 23*(10):2631-2641, October 1993.
	AB	Green et al., "Antigen-specific human monoclonal antibodies from mice engineered with human Ig heavy and light chain YACs," *Nat. Genet., 7*(1):13-21, May 1994.
	AC	Groux et al., "CD3-mediated apoptosis of human medullary thymocytes and activated peripheral T cells: respective roles of interleukin-1, interleukin-2, interferon-γ and accessory cells," *Eur. J. Immunol., 23*(7):1623-1629, July 1993.
	AD	Guinn et al., "4-1BBL Cooperates with B7-1 and B7-2 in Converting a B Cell Lymphoma Cell Line into a Long-Lasting Antitumor Vaccine," *J. Immunol., 162*:5003-5010, 1999.
	AF	Hansen et al., "Monoclonal Antibodies Identifying a Novel T-Cell Antigen and Ia Antigens of Human Lymphocytes," *Immunogenetics, 10*(3):247-260, March 1, 1980.
	AF	Harding et al., "CD28- mediated signalling co-stimulates murine T cells and prevents induction of anergy in T-cell clones," *Nature 356*:607-609, April 16, 1992.
	AI	Heimfeld et al., "Improvements in Gene Therapy: Rapid Purification of Specific Target Cells Using the CEPRATE® System," *British J. Haematol., 87*(1):193, Abstract No. 754, 1994.
	AH	Henderson et al., "Comparison of the effects of FK-506, cyclosporin A and rapamycin on IL-2 production," *Immunol., 73*(3):316-321, July 1991.
	AI	Heslop et al., "Long-term restoration of immunity against Epstein-Barr virus infection by adoptive transfer of gene-modified virus-specific T lymphocytes," *Nature Medicine 2*(5):551-555, May 1996.
	AJ	Hurtado et al., "Potential Role of 4-1BB in T Cell Activation," *J. Immunol. 155*(7):3360-3367, October 1, 1995.
	AK	Hurtado et al., "Signals Through 4-1BB are Costimulatory to Previously Activated Splenic T Cells and Inhibit Activation-Induced Cell Death," *J. Immunol. 158*(6):2600-2609, March 15, 1997.
	AL	Jelley-Gibbs et al., "Two Distinct Stages in the Transition from Naive CD4 T Cells to Effectors, Early Antigen-Dependent and Late Cytokine-Driven Expansion and Differentiation," *J. Immunol., 165*:5017-5026, 2000.
	AM	Jenkins et al., "Molecules involved in T-cell costimulation," *Curr. Opin. Immunol., 5*(3):361-367, June 1993.
	AN	June et al., "T-Cell Proliferation Involving the CD28 Pathway Is Associated with Cyclosporine-Resistant Interleukin 2 Gene Expression," *Mol. Cell. Biol.*, 7(12):4472-4481, December 1987.

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	AA	Kabelitz et al., "Life and death of a superantigen-reactive human CD4+ T cell clone: staphylococcal enterotoxins induce death by apoptosis but simultaneously trigger a proliferative response in the presence of HLA-DR+ antigen-presenting cells," *Int. Immunol.*, *4*(12):1381-1388, December 1992.
	AB	Kawabe et al., "Programmed cell death and extrathymic reduction of Vβ8$^+$ CD4$^+$ T cells in mice tolerant to *Staphylococcus aureus* enterotoxin B," *Nature, 349*:245-248, January 17, 1991.
	AC	Ku et al., "Control of Homeostasis of CD8$^+$ Memory T Cells by Opposing Cytokines," *Science, 288*:675-678, April 28, 2000.
	AD	Kung et al., "Monoclonal Antibodies Defining Distinctive Human T Cell Surface Antigens," *Science, 206*:347-349, October 19, 1979.
	AE	Kurys et al., "The Long Signal Peptide Isoform and Its Alternative Processing Direct the Intracellular Trafficking of Interleukin-15," *J. Biol. Chem., 275*(39):30653-30659, September 29, 2000.
	AF	Lanzavecchia, A., "Licence to Kill," *Nature, 393*:413-414, June 4, 1998.
	AG	Latouche et al., "Induction of human cytotoxic T lymphocytes by artificial antigen-presenting cells," *Nature Biotechnology, 18*(4):405-409, April 2000.
	AH	Laux et al., " Response Differences between Human CD4$^+$ and CD8$^+$ T-Cells during CD28 Costimulation: Implications for Immune Cell-Based Therapies and Studies Related to the Expansion of Double-Positive T-Cells during Aging," *Clin. Immunol., 96*(3):187-197, September 2000.
	AI	Lenschow et al., "Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA4lg," *Science, 257*:789-792, August 7, 1992.
	AJ	Levine et al., "CD28 ligands CD80 (B7-1) and CD86 (B7-2) induce long-term autocrine growth of CD4+ T cells and induce similar patterns of cytokine secretion *in vitro*," *Int. Immunol., 7*(6):891-904, 1995.
	AK	Lindsten et al., "Regulation of Lymphokine Messenger RNA Stability by a Surface-Mediated T Cell Activation Pathway," *Science, 244*:339-343, April 21, 1989.
	AL	Linsley et al., "The Role of the CD28 Receptor During T Cell Responses to Antigen," *Annu. Rev. Immunol., 11*:191-212, 1993.
	AM	Liu et al., "Calcineurin is a Common Target of Cyclophilin-Cyclosporin A and FKBP-FK506 Complexes," *Cell, 66*(4):807-815, August 23, 1991.
	AN	Liuzzo et al., "Perturbation of the T-Cell Repertoire in Patients With Unstable Angina," *Circulation, 100*(21):2135-2139, November 23, 1999.
	AO	Lord et al., "The IL-2 Receptor Promotes Proliferation, *bcl-2* and *bcl-x* Induction, But Not Cell Viability Through the Adapter Molecule Shc," *J. Immunol., 161*:4627-4633, 1998.

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	AA	Malefyt et al., "Direct Effects of IL-10 on Subsets of Human $CD4^+$ T Cell Clones and Resting T Cells," *J. Immunol., 150*(11):4754-4765, June 1, 1993.
	AB	Marks-Konczalik et al., "IL-2-induced activation-induced cell death is inhibited in IL-15 transgenic mice," *Proc. Natl. Acad. Sci. USA, 97*(21):11445-11450, October 10, 2000.
	AC	Melero et al., "Monoclonal antibodies against the 4-1BB T-cell activation molecule eradicate established tumors, *Nature Medicine, 3*(6):682-685, June 1997.
	AD	Melero et al., "Amplification of tumor immunity by gene transfer of the co-stimulatory 4-1BB ligand: synergy with the CD28 co-stimulatory pathway," *Eur. J. of Immunol. 28*(3):1116-1121, March 1998.
	AE	Melief et al., "T-Cell Immunotherapy of Tumors by Adoptive Transfer of Cytotoxic T Lymphocytes and by Vaccination with Minimal Essential Epitopes," *Immunological Reviews, 146*:167-177, 1995.
	AF	Musso et al., "Human Monocytes Constitutively Express Membrane-Bound, Biologically Active, and Interferon -γ- Upregulated Interleukin-15," *Blood, 93*(10):3531-3539, May 15, 1999.
	AG	Pollok et al., "Inducible T Cell Antigen 4-1BB: Analysis of Expression and Function," *J. Immunol., 150*(3):771-781, February 1,1993.
	AH	Rabinovitch, "Regulation of human fibroblast growth rate by both noncycling cell fraction and transition probability is shown by growth in 5-bromodeoxyuridine followed by Hoechst 33258 flow cytometry," *Proc. Natl. Acad. Sci. USA, 80*:2951-2955, May 1983.
	AI	Refaeli et al., "Biochemical Mechanisms of IL-2-Regulated Fas-Mediated T Cell Apoptosis," *Immunity, 8*(5):615-623, May 1998.
	AJ	Riddell et al., "The Fred Hutchinson Cancer Research Center and the University of Washington School of Medicine, Department of Medicine, Division of Oncology: Phase I Study of Cellular Adoptive Immunotherapy Using Genetically Modified $CD8^+$ HIV-Specific T Cells for HIV Seropositive Patients Undergoing Allogeneic Bone Marrow Transplant," *Humane Gene Therapy, 3*(3):319-338, June 1992.
	AK	Riddell et al., "Restoration of Viral Immunity in Immunodeficient Humans by the Adoptive Transfer of T Cell Clones," *Science, 257*:238-241, July 10, 1992.
	AL	Riddell et al., "Principles for Adoptive T Cell Therapy of Human Viral Diseases," *Ann. Rev. Immunol., 13*:545-586, 1995.
	AM	Rooney et al., "Infusion of Cytotoxic T Cells for the Prevention and Treatment of Epstein-Barr Virus-Induced Lymphoma in Allogeneic Transplant Recipients," *Blood, 92*(5):1549-1555, September 1, 1998.
	AN	Rosenberg et al., "Gene Transfer into Humans – Immunotherapy of Patients with Advanced Melanoma, using Tumor-Infiltrating Lymphocytes Modified by Retroviral Gene Transduction," *N. Engl. J. Med., 323*(9)570-578, August 30, 1990.

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	AA		Sagerström et al., "Activation and differentiation requirements of primary T cells *in vitro*," *Proc. Natl. Acad. Sci. USA, 90*:8987-8991, October 1993.
	AB		Salomon et al., "B7/CD28 Costimulation is Essential for the Homeostasis of the $CD4^+CD25^+$ Immunoregulatory T Cells that Control Autoimmune Diabetes," *Immunity, 12*(4):431-440, April 2000.
	AC		San Jose et al., "Assembly of the TCR/CD3 complex: CD3ε/δ and CD3ε/γ dimers associate indistinctly with both TCRα and TCRβ chains. Evidence for a double TCR heterodimer model," *Eur. J. Immunol., 28*:12-21, 1998.
	AD		Saoulli et al., "CD28-independent, TRAF2-dependent Costimulation of Resting T Cells by 4-1BB Ligand," *J. Exp. Med., 187*(11):1849-1862, June 1, 1998.
	AE		Schwartz, R.H., "Costimulation of T Lymphocytes: The Role of CD28, CTLA-4, and B7/BB1 in Interleukin-2 Production and Immunotherapy," *Cell, 71*:1065-1068, December 24, 1992.
	AF		Shevach, "Regulatory T Cells in Autoimmunity," *Annu. Rev. Immunol. 18*:423-449, 2000.
	AG		Shuford et al., "4-1BB Costimulatory Signals Preferentially Induce $CD8^+$ T Cell Proliferation and Lead to the Amplification In Vivo of Cytotoxic T Cell Responses," *J. Exp. Med., 186*(1):47-55, July 7, 1997.
	AH		Smith et al., "T-Cell Growth Factor-Mediated T-Cell Proliferation," *Ann. N.Y. Acad. Sci., 332*:423-432, 1979.
	AI		Springer et al., "The Lymphocyte Function-Associated LFA-1, CD2, and LFA-3 Molecules: Cell Adhesion Receptors of the Immune System," *Ann. Rev. Immunol., 5*:223-252, 1987.
	AJ		Tagaya et al., "Generation of secretable and nonsecretable interleukin 15 isoforms through alternate usage of signal peptides," *Proc. Natl. Acad. Sci. USA, 94*:14444-14449, December 1997.
	AK		Takahashi et al., "Cutting Edge: 4-1BB Is a Bona Fide CD8 T Cell Survival Signal," *J. Immunol., 162*:5037-5040, 1999.
	AL		Tan et al., "4-1BB Costimulation Is Required for Protective Anti-Viral Immunity After Peptide Vaccination," *J. Immunol., 164*:2320-2325, 2000.
	AM		Turka et al., "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection *in vivo*," *Proc. Natl. Acad. Sci. USA, 89*:11102-11105, November 1992.
	AN		van de Winkel et al., "Human IgG Fc receptor heterogeniety: molecular aspects and clinical implications," *Immunol. Today, 14*(5):215-221, 1993.
	AO		Voltz et al., "A Serologic Marker of Paraneoplastic Limbic and Brain-Stem Encephalitis in Patients with Testicular Cancer," *N. Eng. J. Med., 340*(23):1788-1795, June 10, 1999.

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	AA		Wang et al., "Naïve $CD8^+$ T Cells Do Not Require Costimulation for Proliferation and Differentiation into Cytotoxic Effector Cells," *J. of Immunol., 164*:1216-1222, 2000.
	AB		Webb et al., "Extrathymic Tolerance of Mature T Cells: Clonal Elimination as a Consequence of Immunity," *Cell, 63*:1249-1256, December 21, 1990.
	AC		Wells et al., "Following the Fate of Individual T Cells Throughout Activation and Clonal Expansion," *J. Clin. Invest., 100*(12):3173-3183, December 1997.
	AD		Wells et al., "T Cell Effector Function and Anergy Avoidance Are Quantitatively Linked to Cell Division," *J. Immunol., 165*:2432-2443, 2000.
	AE		Weyand et al., "Functional properties of $CD4^+$ $CD28^-$ T cells in the aging immune system," *Mechanisms of Ageing and Development, 102*(2, 3):131-147, May 15, 1998.
	AF		Yee et al., "Isolation of High Avidity Melanoma-Reactive CTL from Heterogeneous Populations Using Peptide-MHC Tetramers," *J. Immunol., 162*:2227-2234, 1999.
	AG		Yotnda et al., "Cytotoxic T Cell Response Against the Chimeric p210 BCR-ABL Protein in Patients with Chronic Myelogenous Leukemia," *J. Clin. Invest., 101*(10):2290-2296, May 1998.
	AH		Zamai et al., "Lymphocyte binding to K562 cells: effect of target cell irradiation and correlation with ICAM-1 and LFA-3 expression," *Eur. J. Histochem., 38*(Supp.1):53-60, 1994.
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